

CLAIMS:

1. A first surface mirror comprising:  
a substrate supporting a coating, wherein the coating includes at least a reflective layer, first and second dielectric layers, and a Cr inclusive layer,  
wherein the Cr inclusive layer is located directly under and contacting the reflective layer in order to improve at least durability of the first surface mirror, and  
wherein the reflective layer reflects incoming light away from the substrate before the incoming light reaches the Cr inclusive layer.
2. The first surface mirror of claim 1, wherein the first surface mirror is located in a projection television apparatus.
3. The first surface mirror of claim 1, further comprising a layer comprising silicon nitride located between the Cr inclusive layer and the substrate.
4. The first surface mirror of claim 1, wherein the Cr inclusive layer is substantially metallic.
5. The first surface mirror of claim 1, wherein the reflective layer comprises Al, and wherein the first surface mirror reflects at least about 80% of incoming visible light at about 550 nm.
6. The first surface mirror of claim 1, wherein the Cr inclusive layer comprises an oxide and/or nitride of Cr.
7. The first surface mirror of claim 1, wherein the first dielectric layer comprising silicon oxide and the second dielectric layer comprises titanium oxide.
8. The first surface mirror of claim 1, wherein the first and second dielectric layers are each provided on the substrate over at least the reflective layer,

and wherein the second dielectric layer is an outermost layer of the first surface mirror, and wherein the second dielectric layer has an index of refraction value "n" greater than an index of refraction value "n" of the first dielectric layer.

9. The first surface mirror of claim 8, wherein the second dielectric layer has an index of refraction value "n" of from about 2.2 to 2.6, and the first dielectric layer has an index of refraction value "n" of from about 1.4 to 1.6.

10. The first surface mirror of claim 1, wherein the Cr inclusive layer is from about 10 to 100 Å thick.

11. The first surface mirror of claim 1, wherein the reflective layer reflects incoming light back toward a viewer before the incoming light reaches the substrate.

12. The first surface mirror of claim 1, wherein the substrate comprises soda lime silica based glass.

13. A first surface mirror comprising:  
a substrate supporting a coating, wherein the coating includes at least a reflective layer comprising Al and a Cr inclusive layer, and  
wherein the Cr inclusive layer is located directly under and contacting the reflective layer comprising Al.

14. The first surface mirror of claim 13, wherein the first surface mirror is located in a projection television apparatus.

15. The first surface mirror of claim 13, further comprising a layer comprising silicon nitride located between the Cr inclusive layer and the substrate.

16. The first surface mirror of claim 13, wherein the Cr inclusive layer is substantially metallic.

17. A first surface mirror comprising:  
a substrate supporting a coating, wherein the coating includes at least a reflective layer, a Cr inclusive layer, and at least one dielectric layer located over at least the reflective layer and the Cr inclusive layer, and  
wherein the Cr inclusive layer is located between the substrate and the reflective layer.
18. The first surface mirror of claim 17, wherein the first surface mirror is located in a projection television apparatus.
19. The first surface mirror of claim 17, further comprising a layer comprising silicon nitride located between the substrate and the Cr inclusive layer.
20. The first surface mirror of claim 17, wherein the reflective layer reflects incoming light away from the substrate before the incoming light reaches the Cr inclusive layer.
21. The first surface mirror of claim 17, wherein the first surface mirror reflects at least about 85% of incoming visible light at about 550 nm.
22. The first surface mirror of claim 13, wherein the first surface mirror reflects at least about 85% of incoming visible light at about 550 nm.

23. The first surface mirror of claim 1, wherein the first surface mirror reflects at least about 85% of incoming visible light at about 550 nm.

24. The first surface mirror of claim 1, wherein the first surface mirror reflects at least about 90% of incoming visible light at about 550 nm.

25. The first surface mirror of claim 1, wherein the Cr inclusive layer has a index of refraction value "n" of from 3.4 to 3.8.